

## Title (en)

COLLIMATING FIBER SCANNER DESIGN WITH INWARD POINTING ANGLES IN VIRTUAL/AUGMENTED REALITY SYSTEM

## Title (de)

DESIGN EINES KOLLIMATIONSFASERSCANNERS MIT NACH INNEN ZEIGENDEN WINKELN IN EINEM VIRTUELLEN/ERWEITERTEN REALITÄTSSYSTEM

## Title (fr)

CONCEPTION DE SCANNER À FIBRE DE COLLIMATION AVEC DES ANGLES POINTANT VERS L'INTÉRIEUR DANS UN SYSTÈME DE RÉALITÉ VIRTUELLE/AUGMENTÉE

## Publication

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## Application

**EP 20156688 A 20160719**

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## Abstract (en)

A display subsystem for a virtual image generation system. The display subsystem comprises a planar waveguide apparatus, and an optical fiber having a distal tip affixed relative to the planar waveguide apparatus, and an aperture proximal to the distal tip. The display subsystem further comprises at least one light source coupled the optical fiber and configured for emitting light from the aperture of the optical fiber, and a mechanical drive assembly to which the optical fiber is mounted to the drive assembly. The mechanical drive assembly is configured for displacing the aperture of the optical fiber in accordance with a scan pattern. The display subsystem further comprises an optical waveguide input apparatus configured for directing the light from the aperture of the optical fiber down the planar waveguide apparatus, such that the planar waveguide apparatus displays one or more image frames to the end user.

## IPC 8 full level

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## Citation (applicant)

- WO 2015081313 A2 20150604 - MAGIC LEAP INC [US]
- WO 2013188464 A1 20131219 - MAGIC LEAP INC [US]
- WO 03081320 A1 20031002 - LUMUS LTD [IL], et al

## Citation (search report)

- [A] WO 2015081313 A2 20150604 - MAGIC LEAP INC [US]
- [A] WO 2013188464 A1 20131219 - MAGIC LEAP INC [US]
- [A] WO 03081320 A1 20031002 - LUMUS LTD [IL], et al
- [A] US 2004151466 A1 20040805 - CROSSMAN-BOSWORTH JANET [US], et al
- [A] JP H05297313 A 19931112 - CANON KK

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